



May 27, 2016

Tom Moe USS Corporation P.O. Box 417 8771 Park Ridge Dr Mountain Iron, MN 55768

RE: Project: NPDES-TB Wk3
Pace Project No.: 1266389

Dear Tom Moe:

Enclosed are the analytical results for sample(s) received by the laboratory on May 18, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Melisa M Woods

Massia Wirds

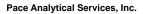
melisa.woods@pacelabs.com

Project Manager

Enclosures

cc: Cory Hertling Terri Sabetti, NTS





Pace Analytical www.pacelabs.com

315 Chestnut Street Virginia, MN 55792 (218) 742-1042

CERTIFICATIONS

Project: NPDES-TB Wk3

Pace Project No.: 1266389

Virginia Minnesota Certification ID's

315 Chestnut Street, Virginia, MN 55792
Alaska Certification #MN01084
Arizona Department of Health Certification #AZ0785
Minnesota Dept of Health Certification #: 027-137-445

North Dakota Certification: # R-203

Wisconsin DNR Certification #: 998027470
WA Department of Ecology Lab ID# C1007

Nevada DNR #MN010842015-1

Oklahoma Department of Environmental Quality

Duluth Minnesota Cerification ID's

4730 Oneota St., Duluth, MN 55807

Minnesota Dept of Health Certification #: 027-137-152

Wisconsin DNR Certification #: 999446800

North Dakota Certification #: R-105





SAMPLE SUMMARY

Project: NPDES-TB Wk3

Pace Project No.: 1266389

Lab ID	Sample ID	Matrix	Date Collected	Date Received
1266389001	SD-001 (Seep 020)	Water	05/18/16 11:00	05/18/16 14:00





SAMPLE ANALYTE COUNT

Project: NPDES-TB Wk3

Pace Project No.: 1266389

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
1266389001	SD-001 (Seep 020)	EPA 1664 TPH	BT1	1	PASI-DUL
		USGS I-3765	BEM	1	PASI-V



ANALYTICAL RESULTS

Project: NPDES-TB Wk3

Pace Project No.: 1266389

Date: 05/27/2016 12:34 PM

Sample: SD-001 (Seep 020)	Lab ID:	1266389001	Collecte	d: 05/18/16	3 11:00	Received: 05/18/16 14:00 Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
1664 SGT-HEM, TPH	Analytical	Method: EPA	1664 TPH							
Total Petroleum Hydrocarbons	ND	mg/L	3.0	0.91	1		05/25/16 17:56			
USGS I-3765 TSS	Analytical	Method: USG	S I-3765							
Total Suspended Solids	1.2	mg/L	1.0	1.0	1		05/23/16 11:44			



QUALITY CONTROL DATA

Project: NPDES-TB Wk3

Pace Project No.: 1266389

QC Batch: DUL/6919 Analysis Method: EPA 1664 TPH
QC Batch Method: EPA 1664 TPH Analysis Description: 1664 SGT-HEM, TPH

Associated Lab Samples: 1266389001

METHOD BLANK: 320994 Matrix: Water

Associated Lab Samples: 1266389001

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Petroleum Hydrocarbons mg/L ND 3.0 0.90 05/25/16 17:10

LABORATORY CONTROL SAMPLE: 320995

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 70 Total Petroleum Hydrocarbons mg/L 20 14.0 64-132

MATRIX SPIKE SAMPLE: 320996

Date: 05/27/2016 12:34 PM

1266521002 MS MS Spike % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers <0.91 64-132 Total Petroleum Hydrocarbons 20.6 16.2 75 mg/L

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALITY CONTROL DATA

Project: NPDES-TB Wk3

Pace Project No.: 1266389

QC Batch: WET/24190 Analysis Method: USGS I-3765

QC Batch Method: USGS I-3765 Analysis Description: USGS I-3765 Total Suspended Solids

Associated Lab Samples: 1266389001

METHOD BLANK: 320584 Matrix: Water

Associated Lab Samples: 1266389001

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Suspended Solids mg/L ND 1.0 05/23/16 11:43

LABORATORY CONTROL SAMPLE: 320585

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers **Total Suspended Solids** mg/L 239 242 101 80-120

SAMPLE DUPLICATE: 320586

1266556002 Dup Max **RPD RPD** Parameter Units Result Result Qualifiers 20.0 10 D6 Total Suspended Solids 18.0 11 mg/L

SAMPLE DUPLICATE: 320587

Date: 05/27/2016 12:34 PM

1266559001 Dup Max RPD RPD Parameter Units Result Result Qualifiers 184 Total Suspended Solids mg/L 172 7 10

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project: NPDES-TB Wk3

Pace Project No.: 1266389

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-DUL Pace Analytical Services - Duluth
PASI-V Pace Analytical Services - Virginia

ANALYTE QUALIFIERS

Date: 05/27/2016 12:34 PM

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: NPDES-TB Wk3

Pace Project No.: 1266389

Date: 05/27/2016 12:34 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
1266389001	SD-001 (Seep 020)	EPA 1664 TPH	DUL/6919		
1266389001	SD-001 (Seep 020)	USGS I-3765	WET/24190		

Required Client Information:

Company:

USS Corporation

Address: P.O. Box 417
Mt. Iron, MN 55768

Section A

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Report To: Тот Мое Project Name: Purchase Order #: Copy To: Required Project Information: Section B NPDES-TB Wk3 Section C Invoice Information: Attention: Company Name: Address: Pace Project Manager:
Pace Profile #: Pace Quote: PM: MM CLIENT: USS CORP W0#:1266389 Due Date: 06/02/16 Q Page 10 of 13

					12	1	10	9	8	7	6	5	4	3	2		ITEM #				Hequesia
				ADDITIONAL COMMENTS												SD 001 (Seep 020)		SAMPLE ID SolvSciid SL			Hequested Due Date:
				RELINQUISHED BY/ AFFILIATION																$\ \ $	#
		١,		CINCL												WΤ	MATRIX CODE (SAMPLE TYPE	-		H	
			2	NSHE!	!										ļ ,	2		(u=u+Ab 0=0	,	H	
,		ų.	Se la	BY/ø												1871	DATE	START		Ш	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: SIGNATURE of SAMPLER:			aloute.	FELLA												5-1874 11:00 5-1874 11:00	TIME	5	8	Ш	
RINT	ļ	ļ	7	NOI												<u>ر</u> و			COLLECTED	Ш	
AME Name																<i>1</i> 77	DATE	Ŵ.	ĒΒ	$\ \cdot \ $	
PLER NAME AND SIGNATURE OF SAMPLER. SIGNATURE OF SAMPLER.		1	7													. 11.	TIME	END END		H	
MPLE			5-1876	DATE												3		T COLL COTION			
			l i														# OF CONTAINER		V	┨├	7
			00,11	TIME													Unpreserved				Pace Profile #:
8 8			8														H2SO4			Ш	offile
Paul mager la																	HNO3		Pre	Ш	715
\$ 3																	HCI		Preservatives	Ш	
E 4				J.C.													NaOH Na2S2O3	-	ative	Ш	
10/2-1				CEP													Methanol		č	П	
'			<u> </u>	CEPTED BY / AFFILIATION													Other		1	П	
		(~	1774		'											Analyses	Test	Y/N		
		-	1													×	TSS				
DATE Signed:		`	3	₫	- 1											×	TRPH 1664			3	
Signe																				Ques	
d.			١.	2		_					<u> </u>									图	
			5																	NE SYLET	
57876			5-18-16	DATE																<u> </u> <u>5</u>	
7		<u> </u>	è																	erea	
₽			1/2	п	-															Requested Analysis Filtered (Y/N)	
			14.00	JME	-						 										
200ys.3800	+	-	2																		
TEMP in C		\perp	7														Residual Chlorid	ne (Y/N)	157		
Received on Ice			7	SAM				,													1
(Y/N)			-\	PLE																	
Custody Sealed				OND															NEXX EXX	₹ -¥	
Cooler (Y/N)			ζ	SAMPLE CONDITIONS																ij.	
Samples Intact			7																	3.5 3.7	
	1		- I	perputation of															 ■ C223 - Villa 		

6	
Pace Analytica	12

Document Name:

Sample Condition Upon Receipt Form

Document No.: F-VM-C-001-Rev.09 Document Revised: 23Feb2015

Page 1 of 1

Issuing Authority:

Pace Virginia, Minnesota Quality Office

Sample Condition Client Name:	· •		Project #	W0#:1266389
Courier: Fed Ex UPS Commercial Pace Tracking Number:	USPS Other:_	Z	lient	1266389
Custody Seal on Cooler/Box Present? Yes N	lo	Seals Ir	ntact?	Yes No Optional: Proj. Due Date: Proj. Name:
Packing Material: Bubble Wrap Bubble Bags		ne [Other:	Temp Blank? Yes \(\sum \)No
Thermometer Used: 🛕 140792808	? Type of I	ce: 🗡	` Wet [Blue None Samples on ice, cooling process has begun
Cooler Temp Read °C: 1.4 Cooler Temp Coole	rrecte _s d °C		->	Biological Tissue Frozen? Yes No NA Initials of Person Examining Contents: 57816, CL Comments:
Chain of Custody Present?	□ Yes	□No	□n/a	1.
Chain of Custody Filled Out?	✓Yes	□No	□N/A	2.
Chain of Custody Relinquished?	Yes	No	□N/A	3.
Sampler Name and Signature on COC?	Z]Yes	□No	□n/a	4
Samples Arrived within Hold Time?	Yes	□No	□n/a	5.
Short Hold Time Analysis (<72 hr)?	□Yes	⊠No	□n/a	6.
Rush Turn Around Time Requested?	□Yes	Νo	□N/A	7.
Sufficient Volume?	⊉ ?es	□No	□N/A	8.
Correct Containers Used?	∠Yes	□No	□n/a	9.
-Pace Containers Used?	Yes	□No	□N/A	
Containers Intact?	ZYes	□No	□N/A	10.
Filtered Volume Received for Dissolved Tests?	☐Yes	□No	⊠ N/A	11. Note if sediment is visible in the dissolved containers.
Sample labels Match COC?	Yes	□No	□n/a	12.
-Includes Date/Time/ID/Analysis Matrix: W T				
All containers needing acid/base preservation will be checked and documented in the pH logbook.	WYes W	□No	Øn/a	See pH log for results and additional preservation documentation
Headspace in Methyl Mercury Container	□Yes	□No	ØN/A	13.
Headspace in VOA Vials (>6mm)?	□Yes	□No	N/A	14.
Trip Blank Present?	Yes	□No	[ZÎN/A	15.
Trip Blank Custody Seals Present?	□Yes	□No	∏ N/a	
Pace Trip Blank Lot # (if purchased):				
CLIENT NOTIFICATION/RESOLUTION Person Contacted:			. 1	Field Data Required? Yes No
Person Contacted:Comments/Resolution:		•		patey firme:
Continency resolution.				
			· · · · · · · · · · · · · · · · · · ·	

FECAL WAIVER ON FILE Y

TEMPERATURE WAIVER ON FILE

Project Manager Review:

Project Manager Review: 4 / Was Date: 011 011 @

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office Lie Out of 13 hold, incorrect preservative, out of temp, incorrect containers)

Intra-Regional Chain of Custody



Cooler Temp	4	3	2	1	Transfers Re		ζ1	4	3	2	1 SD-001 (Seep 020)	Item Sample ID	Report To: Melisa M Woods	Face Allalytical Virginia 315 Chestnut Street Virginia, MN 55792 Phone (218) 742-1042	Received at:	
Cooler Temperature on Receipt 1. (2 °C					Released By	新发展外发现					p 020)		To the second se	7 vii giinia Street 5792 12-1042	War in the second	
eipt <u> . (</u> °C											PS 5/1	Sample Go				
				5/1 4/106	Date/Time						5/18/2016 11:00 1:	Collect Date/Time L		4730 Oneota Street Duluth, MN 55807 Phone (218) 727-6380	Send To Lab:	
Custody Seal Y or				199 Hestrue Polson	Received By				·		1266389001 W	Lab ID = Mi		231 Dulum 3 Street 55807 727-6380		
or N				Polson							Water 2	Matrix HCL	Prese			
Received on Ice			1000	Slia	Date/Time								Preserved Containers			******
\odot	7			19116 1840	Time						×	E	PA 1664 TPH			1000,100
or N				•											Requested Analysis	0. 1.0001.00 Paro. 0. 101.010
Samples						Comments									Analysis	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Samples Intact (火) or	y					STATEMENT						LA				
r N												LAB USE ONLY				

^{***}In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

	Document Name: Sample Condition Upon Receipt Form	Document Revised: 22Jan2016 Page 1 of 1
Pace Analytical*	Document No.: F-DUL-C-001-Rev.01	Issuing Authority: Pace Virginia, Minnesota Quality Office
ndition Client Name:	Project #:	

Upon Receipt			Project #	;
IR-COC				
Courier: Fed Ex UPS	USPS	c	lient	
CommercialPace	Other:	Jake		
acking Number:				
istody Seal on Cooler/Box Present? 🔀 Yes 🗌]No	Seals Ir	ntact?	Yes No Optional: Proj. Due Date: Proj. Name:
acking Material: Bubble Wrap 🔀 Bubble Ba	igs 🔲 Ni	one [Other:	Temp Blank? → Yes No
_		lce: 🛶	Wat [Blue None Samples on ice, cooling process has begu
ermometer Used: 💢 800051				Joine
np should be above freezing to 6°C Correction Fac				Biological Tissue Frozen? Yes No No Initials of Person Examining Contents: 5/19/11/2 Kp Comments:
Chain of Custody Present?	∑Yes	□No	□N/A	1.
hain of Custody Filled Out?	Yes	□No	□n/A	2.
hain of Custody Relinquished?	¥¥Yes	∏No	□N/A	3.
ampler Name and Signature on COC?	Yes	□No	▼ N/A	4.
amples Arrived within Hold Time?	Yes	□No	□n/A	5.
hort Hold Time Analysis (<72 hr)?	∐Yes	No	□n/a	6.
ush Turn Around Time Requested?	Yes	∑ No	□n/A	7.
ufficient Volume?	Yes	□No	□n/A	8.
orrect Containers Used?	Yes	□No	□n/A	9.
-Pace Containers Used?	Yes	□No	□n/A	
Containers Intact?	Yes	∐No	□N/A	10.
iltered Volume Received for Dissolved Tests?	Yes	□No	⊠ N/A	11. Note if sediment is visible in the dissolved containers.
ample Labels Match COC?	Yes	□No	□n/A	12.
-Includes Date/Time/ID/Analysis Matrix:				
All containers needing acid/base preservation will be checked and documented in the pH logbook.	∐Yes	□No	□n/A	See pH log for results and additional preservation documentation
leadspace in Methyl Mercury Container	□Yes	□No	□N/A	13.
leadspace in VOA Vials (>6mm)?	□Yes	□No	D N/A	14.
rip Blank Present?	∐Yes	□No	□N/A	15.
rip Blank Custody Seals Present?	☐Yes	□No	∏n/a	
Pace Trip Blank Lot # (if purchased):	-		*	
IENT NOTIFICATION/RESOLUTION				Field Data Required? Yes No
Person Contacted:				Date/Time:
Comments/Resolution:				
	····-			
		· · · · · · · · · · · · · · · · · · ·		
	······································	· · · · · ·		
ECAL WAIVER ON FILE Y N		TEM	1PERATU	RE WAIVER ON FILE Y N
	PC)	,,	Date: 5-20-16
roject Manager Review:	1 tor	LM	P	Date: 3-20-66

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)